



# Wet Season Agricultural Performance in Nigeria Executive Summary

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National Agricultural Extension and Research Liaison Services Federal Ministry of Agriculture and Rural Development Ahmadu Bello University, Zaria

## 2019 Wet Season Agricultural Performance in Nigeria

## **Executive Summary**

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National Agricultural Extension and Research Liaison Services Federal Ministry of Agriculture and Rural Development Ahmadu Bello University, Zaria

NAERLS ··



o be the foremost Institute for agricultural extension research and capacity development for effective delivery services increased agricultural productivity, sustainable agricultural growth and wealth creation



o develop, collate, evaluate and disseminate proven and relevant agricultural innovation and research on extension methodologies and provide leadership in capacity building of stakeholders to meet the present and future agricultiral development of the country



- Advance the frontiers of agricultural extension research and services
- Conduct agricultural performance assessment and provide feedbacks
- Build the capacity and skill of key actors in agricultural extension services
- Plan, coordinate. monitor and evaluate REFILS activities nation wide
- Package and disseminate improved agricultural innovations to target users in Nigeria
- Review and support the extension activities of agricultural research institutes



#### 2019 Wet Season Agricultural Performance in Nigeria. Executive Summary

By

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Certified By

**National Technical Committee on Agricultural Statistics** 

Collaborators

P&PCD, NBS, FDAE, FDA, FDFA, FDAPHS, IAR, DFISS, NARI, NIMET, NIFOR, LCRI, IAR&T, NIHORT, GIZ, NAPRI, NASC, SG 2000

October 2019



## 1.0 Preface

ssessment of agricultural production in Nigeria is one of the core mandates of NAERLS. The 2019 Wet Season Agricultural Performance Survey (APS) was conducted from 25<sup>th</sup> August to 1st September. The field work was done in collaboration With the following agencies and organisation

36 States and FCT Agricultural Development Programme (ADPs)

- Federal Department of Agricultural Extension (FDAE), FMARD;
- 36 State Ministries of Agriculture and FCT Department of Agriculture;
- National Bureau of Statistics (NBS);
- Nigerian Meteorological Agency (NIMET);
- Planning Policy and Coordination Department (PPCD), FMARD;
- Federal Department of Fisheries and Aquaculture (FDFA), FMARD;
- Federal Department of Animal Production and Husbandry Services (FDAHS), FMARD;
- National Agriultural Seeds Council (NASC)
- Deutche Gesellschaft Fur InternationaleZusammenarbeit (GIZ) GmbH-Nigeria;
- Word Food Programme, Abuja;
- Institute for Agricultural Research (IAR), ABU, Zaria;
- Institute for Agricultural Research and Training (IAR&T), OAU, Ibadan;
- National Animal Production Research Institute (NAPRI), ABU, Zaria;
- Lake Chad Research Institute, Maiduguri
- Sasakawa Global 2000
- Nigerian Institute for Horticultural Research (NIHORT), Ibadan;
- Nigerian Institute for oil Palm Research (NIFOR), Benin-City; and
- Nigerian Hydrological Services Agency (NIHSA), Abuja

Twenty teams with each consisting of 3 scientists covered 148 LGAs in 36 states and the Federal Capital Territory (FCT). A monitoring team of six scientists, one per geo-political zone, participated in the survey. Agricultural production situation was assessed as well as impact of floods on food production due to widespread incidence of flood in the country.

The survey report provides an insight into annual cropping season with emphasis on food production, crop pests and disease situation, market situation, commodity prices, agrometeorological conditions, and agro-pastoral situation across the country. The survey also provides insight on performance of policy thrust as well as progress made on special interventions and programmes on agriculture by the Federal and states Governments. The outputs of the evaluation exercise are put together into an executive summary and national report, which are usually circulated to all states, relevant agencies and other stakeholders. The report provides findings and data that can guide policy formulation and focused research in agriculture. Floods are becoming increasingly a common and recurring disaster annually in the country; therefore reports of floods were documented nation-wide. Thee frequency, severity, and spread of these foods increased significantly up to September 2019.

In an effort to improve the quality and reliability of the data generation, NAERLS continues to expand its range of partners for inclusive data capture and analysis. The Institute continually explores best options on strengthening the capacity of key partners in data collection and management.



The sincere appreciation of NAERLS goes to farmers and farmers' groups, officials of the State Ministries of Agriculture, State Agricultural Development Projects (ADPs), Departments and Agencies and State and Local Government officials across the country for contributing substantially to the success of the field work. We are highly indebted to the Honorable Minister of Agriculture and Rural Development, Alhaji Mohammed Sabo Nanono and the Honourable Minister of State, Alhaji Mustapha Baba Shehuri for their untiring support. We are also sincerely appreciative of the Board Chairman of NAERLS, the ever-supportive Vice-Chancellor of Ahmadu Bello University, Zaria, Prof. Ibrahim Garba. We welcome comments and suggestions for improvement, as you browse through this summary.

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## 2.0

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## 2.0 Methodology

#### Methodology

•

- Twenty multi-disciplinary teams conducted the exercise across the 36 States, Federal establishments and Federal Capital Territory.
- Participatory approach was employed and combined "qualitative" and "quantitative" techniques including:
  - Key informant interviews
  - Focus group discussion and interviews
  - Individual farmers interviews across local governments in the nation
  - Questionnaire/ checklists
  - Farm visits/observations,
  - Interviews with Ministry/ADP officials
  - Official government reports
  - Input from Crop models
  - Wrap up/ validation with relevant stake holders

#### **NARLs Partners**

Institute for Agricultural Research (IAR), ABU, Zaria National Animal Production Research Institute (NAPRI) ABU, Zaria Institute of Agriculture and Training (IAR&T), OAU, Ibadan Lake Chad Research Institute (LCRI), Maiduguri National Institute for Oil Palm Research (NIFOR)Benin City Nigeria Hydrological Services Agency (NIHSA) Nigerian Institute for Horticultural Research (NIHR) Ibadan

#### Non NARLs Partners

#### **Federal Departments and Other Organisations**

Nigerian Meteorological Agency (NIMET), Abuja National Bureau of Statistics (NBS) Federal Dept. of Agric Extension FMARD Planning and Policy Coordination Department (P&PCD),FMARD Federal Dept. of Agric, FMARD Federal Department of Animal Production and Husbandry Services,FMARD Federal Department of Fisheries and Aquaculture,FMARD Dept. of Monitoring and Evaluation, Federal Ministry of Budget and National Planning Sasakawa Global 2000 National Agricultural Seeds Council



## 4.0 Rainfall Situation in 2018 and 2019





Bauchi State had the highest total rain fall in the North-East from January to August, 2019 followed by Gombe State



In the Northwest, Kaduna had the highest rainfall for 2019, while Sokoto had to lowest volume for same year.





Kwara State experienced the highest rainfall in 2019, Plateau State recorded the lowest. Generally, in the North-Central, the rain fall pattern for 2019 was lower than the other 5 zones in 2019.



Anambra State witnessed the highest rain fall in the South-East for 2019. This was lower than what was experienced in 2018. There was increased rain fall in Imo, while Abia recorded the lowest rain in 2019.



ost of the States in South-South and South-West recorded increased rainfall in 2019

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In 2019, Asaba in Delta State has the highest rain fall, while Uyo in Akwa-Ibom State recorded the lowest.



Ibadan had the highest rain fall in the South-West, while Shaki has the lowest in 2019.





Gombe experienced the highest rainy days (above 60), while Nguru had 30 days of rains in 2019. No State had less than 30 days of rain in the North-East in 2019.



Zaria had the highest rainy days (70) as against the lowest recorded in Gusau in 2019.



he rainy days increased in many States in the North-Central as well as in the South-East in 2019.

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Jos recorded the highest rainy days (85 days) for 2019 but this was lower than 90 rainy days in 2018, while Lokoja had the lowest (45 days) in 2019



Number of rainy days increased across the States in the South-East in 2019 with Owerri recording the highest of about 100 days.





Ado-Ekiti recorded the highest rainy days in the South-West, while Shaki recorded the lowest rainy days in 2019.



Eket had the highest rainy days (about 120) in the South-South and Asaba recorded the lowest (about 50 days) in 2019.



#### Temperature Situation in 2018 and 2019



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Bauchi had the lowest mean maximum temperature reduction in the North-East in 2019, but Maiduguri recorded the highest mean maximum decrease



Sokoto recorded the highest mean maximum temperature increase and Zaria had the lowest mean maximum temperature increase in the North-West in 2019.



ean maximum temperature increased moderately in the NC while it was lower in many parts of the SW states in 2019



For 2019, Lokoja recorded the highest mean maximum increase in temperature in the NC while Jos recorded the lowest increase almost the same mean maximum temperature recorded in 2018.



Abeokuta had the highest mean maximum temperature increase in the SW in 2019, while Shaki recorded the lowest mean maximum temperature increase in that zone in 2019.



h e m e a n m a x i m u m temperature decreased slightly for most cities in the South East and South South in 2019.

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Ogoja and Asaba had the highest mean maximum temperature increase in the SS in 2019 though this was lower than what was obtained in 2018











Maize

There was increase in cultivated land area and production output for maize in many states in 2019, but this increase was not significant against that of 2018. This may be due to the fall in market price of maize shortly before the planting season in 2019. Kaduna had the highest increase in cultivated land and production for maize in 2019

Land Area (Hectare)

#### Production (Metric ton)

L PARTS





Millet	<b>There was no considerable increase in cultivated land area and production output in in many of the states, though Yobe State recorded the highest in land cultivated and production output</b>									
		2				11.0	articles manage		dared	His
Land A	Area (He	ectar	e)	F	Proc	duc	tior	ı ( ℕ	letri	c ton)
				Yobe						-
				Adamawa						
				Katsina						
				Niger						
				Gombe						
				Taraba						
				Kano						
				Zamfara 📕						
				Bauchi						
				Benue						
				Borno						
				Kebbi					62	1.5%
				Jigawa 🗖						
				Plateau						
				FCT						3
				Kaduna						
				Kogi						
				Nassarawa						
				Kwara						
250 200	150 100	50	0	0	50	100	150	200	250	300



















## Onion



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-ADVICTOR NO.

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#### Land Area (Hectare)

#### Production (Metric ton)




























































There was Aphid infestations on Soybean in Jigawa state, while Kaduna, Zamfara, Katsina, Adamawa and Jigawa states experienced Aphid infestations on tomato, groundnut, beniseed and cowpea.

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THE REAL PROPERTY.

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### **Aphid Infestation**

16 4





12.82 10.1 There were records of stem-borer infestations on millet, rice, maize and sorghum across states in the Northern and Southern parts of Nigeria in 2019. THE REAL PROPERTY. And the second se NAME A DESCRIPTION OF A **Stemborer Infestation** 100 STEMBORER INFESTATION CHAD 0000 VOBE ZÁN BORNO Gamer BALLCHE BENIN 0 PLATEAU CAMEROON avo TARADA ERIT Legend Milet Rice Mage CPR. Sorghum River 240 55 1 1.





101001 N Army Worm Infestation of Maize 1003 NIGER CHAD BENIN 01007 CAMEROON Legend State 8 tudy\_area Ha Ore 0007 Line these of 1992 weeks. 10002 800





# Livestock Production in 2018 and 2019

### Cattle





















# Aquaciulture

CONTRACT L

**Production output for Bauchi, Oyo and** Akwa-Ibom States were at same levels in 2018 and 2019. However Abia, Nasarawa and Katsina had marginal increases

1017

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# Arttsanal Fish Production









### **Challenges on E- Extension**





### Constraints to ADP Activities (2017-2019)









### Farm Mechanization (2017-2019)





### Challenges to Agricultural Broadcasts





Security Challenges (2017-2019)





## Challenges of Weather to Agricultural Activities















# Government Tractor Availability in Nigeria

To Paper to Alter

There were increases in the number of available functional tractors between 2018 and 2019. Generally, the Northern states provided more data on this than the Southern states.

And Descent and an Article and Article and

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### **Functional Tractors**

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### Area Cultivated by Government Agencies

1183



a linear and an a story operation in a second

### Area Cultivated







# Area cultivated by Private Tractor









# Number of Anchor - Borrower Beneficiary













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(Ship)

# Flood Affected Areas in 2019





STATE	LGA	COMMODITY
		AFFECTED
DELTA	Oshimili S/N,	Fish, crops and
	Ndokwa E. W ,	Livestock
	Aniocha South,Isoko	
	S.N, Bomadi ii,	
	Warri S.W and	
	North, Patani,	
	Ughelli N.S Ethiope	
	E.W Ika South	
EDO	Esan S.E, Etsako	Rice
	Central, Etsako	
	Central,Etsako	
	East,Etsako West	
RIVERS STATE	Obia Akpor, Ahoada	Cassava Maize
	West, Ahoada East,	Residential
	Kwere, Onelga,	Building
	Abua/Odual	
BAYELSA	All LGA except	Houses, Farm
	Brass and Nembe	Structures and
		Arable Crops
Cross River	Abi, Yarkur Calabar	Cassava, Maize
	South Akpabuyo,	and Houses
	Odubra	

STATE	TCA	COMMODITY
SIAIE	LGA	COMMODILY
		AFFECTED
Adamaw	Yola South, Yola North,	Maize and Rice
а	Shelleng, Fufore	
Bauchi	Dass, Bogoro Tafawa, Balewa,	Crops and
	Alkaleri, Kirfi, Toro, Warji,	Residentials
	Jamaare Zaki, Ganjuwa,	
	Katagum, Damban, Misau,	
Borno	Bayo, Konduga, Maiduguri, Jere	All Crops and
	Mafa	Farmlands,
		Poultry, Houses
		and Livestock
Gombe	Gombe, Akko, Balanga,	Crops and Assets
	Nafada,Kwami	
Yobe	Nguru Potiskum,Fune,	Crop, 300
	,Nangere,Bursari,Fika,Geidam	houses, Market,
		Buildings and
		Livestock



STATE	LGA	COMMODITY
		AFFECTED
Nasarawa	Doma, Lafia and Wamba	Maize, Rice
		Yam and
		Ground.nut
Kogi	Ibaji LG, Lokoja, Idah	
Plateau	Jos North, Jos South, Jos East,	
	Pankshin, Kanke, Shendam,	
	Qua'anpan, Langtang N.S, Mangu	
	Miang, Bassa	
FCT	Gwagwalada, Kwali and Abaji	Crops, Animals
		and Houses
Benue	Zone B , Makurdi	
Kwara	Kaiama and Ilorin West	Crops, Animal
		<b>Building Roads</b>
		etc
Niger	Mokwa, Katcha, Wushishi and	Rice and Yam
	Bosso	

STATE	LGA	COMMODITY AFFECTED
Lagos	Ibeju-Lekki , Ikorodu, Badagry and Agege	Poultry,Aquaculture andcrops
Оуо	Egbeda, Ibadan North	Crops and houses
Osun	Obokun	

STATE	LGA	COMMODITY AFFECTED
Abia	Osisioma, Ugwunagbo, Umuahia South, Ohafia ,Aba North Aba South	Crops and Buildings
Enugu	Udi,Nkamu East, Ozeagu	Crops, and Farm Housing
Ebonyi	Afikpo North and South, Abakaliki, Ikwo, Ishielu, Onichi, Ohaozara, Ohaukwu Ivo	Crops and Access Roads
Akwa Ibom	Ikot Ekpene, Itu, Ibiono Ibom, Ikono, Oron, Urue-Offong, Uyo, Essien Udim, Oruk Anam, Abak, Uruan, Eastern Obolo	Buildings, Farmland/Route
Imo	Owerri North, Oru East,Ehime Mbano,Obowp, Onuimo,Ohaji Egbema	Crops, Animal and Houses
Anambra	Akwa North	Rice



STATE	LGA	COMMODITY
		AFFECTED
Katsina	Jibia, Daura Baure, Charanchi,	Assets
	Katsina	
Zamfara	Gusau, Gummi, Talate Mafara,	
	Maradun and Tsafe	
Jigawa	Nearly all LGA	Crops,
		Livestock, Land
		and Buildings
Sokoto	Silame	Millet and
		Soghum
Kano	Makoda, Kunchi,Bunkure,	Crops,Livestock,
	Dawakin Tofa, Warawa	Infrastructures.



# 15.0 Conclusion and Recommendation

### **Conclusion and Recommendations**



he 2019 Wet Season Agricultural Performance Survey in Nigeria was conducted with the support and collaboration of all States Agricultural Development Programmes (ADPs) and Ministries of Agriculture, as well as other agencies/organizations.

Findings presented a vivid picture of agricultural development activities in the country. The results showed, among others, general increases in several economic activities in the agricultural sector, especially cultivated areas and production estimates. The recent government initiatives and policies towards boosting agricultural production in the country, such as the injection of N-Power (Agro) volunteers and the Anchor Borrowers Scheme are already yielding results. These initiatives, among several others, serve as incentives for more engagement in agricultural activities, especially among women, youths and investors. Consequently in 2019, there was improvement in inputs procurement in all states. The field situation in 2019 and production forecasts showed that harvests will be at least 40% above those of 2018 in all areas of agriculture, although this is expected to be marginal for aquaculture. The study also highlighted several constraints, ranging from the challenges of weak extension system, climate change, inadequate input support by government, to insecurity.

Based on these identified constraints, the following recommendations are made:

#### 1. Strengthening of Agricultural Extension System

There is very high Extension Agents /Farm families ratio, as high as 1:15,000, as well as dwindling funding for capital projects, shortage of staff, inadequate training, and lack of mobility as major challenges of extension delivery in the country. There was also the problem of unavailable extension packages (in the form of broadcasts, prints, field demonstrations, or face to face visit). This persistent situation has grossly affected extension activities, especially in the area of extension contacts, technology transfer (MTPs, FNTs, SPATs, OFARs, farmer field school, etc.) and farmers' group formation and management, among others. Governments at both State and Federal levels should develop a strategy for efficient and timely funding of ADPs and other relevant agricultural extension and advisory providers in the country. It is also important to develop a strategy to strengthen extension service delivery in the states and local governments by

providing the needed fund and recruiting more staff to replace. With regard to recruitment, the N-Power (Agro) volunteers can be mainstreamed in each state into full-scale agricultural advisory service provision which is enunciated in the N-Power document. This option of engaging N-Power youths in agricultural extension activities should be explored to accelerate agricultural development in the country.


#### 2. **Increased Investment in Climate-Smart Agriculture**

The frequency of flash and epidemic floods, crop, livestock and fish diseases and pests, as well as prolonged dry spells across the country is becoming a serious call for concern. There is, therefore, the need for government to increase investment (funding and infrastructure) as a rapid response strategy (involving specialists in agricultural research, extension, and climatologists) to these monumental imbalances in agriculture and the ecosystem. The strategy is to develop and promote such crops, animal and fish stocks that are diseaseresistant, drought-tolerant, flood-tolerant, and early maturing.

### 3. **Development and Deployment of Effective Input Subsidization Strategy**

The study found some appreciable level of government support and intervention programmes in several states, although these were not accessible to a majority of farmers. The few farmers that had access to inputs could not afford the subsidized prices. There was also the presence of adulterated agro-inputs inputs. Such input challenge limits farm yields and income, thereby making agriculture unattractive to prospective farmers and investors. Therefore, a costeffective and efficient input distribution strategy/system, especially on seeds/seedlings/breed stock, fertilizers and credit, should be developed through e-Wallet. The inputs so provided should be subsidized and with minimum interference from third parties.

### 4. Prioritization of Conscientious Agricultural Mechanization Strategy.

It is evident from the study that there was low level of mechanization, as well as inefficient tractor hiring schemes across the country. Farmers had very poor access to tractor services. This situation has led to heavy dependence on manual labour, which has especially affected production costs across the country; yet average yield is still very low for as low as 4 tons (for rice) 3 tons (for maize) per hectare. These costs are unsustainable in plans to achieve food security for the country. Therefore, there is the need for the governments to intensify efforts, using Public- Private Partnership in tractor and input service delivery to boost production and position agriculture in its rightful economic place through a strategy to continuously purchase new tractors and repair dysfunctional ones, so as to increase production.

New trends in agriculture such as hydroponics system and greenhouse technology should be considered to boost productivity and reduce food insecurity in Nigeria.

# 5. Increased Support to the National Farmers Helpline Centre

The zeal of farmers to expand agricultural activities was not equally matched with the requisite knowledge for improved farm management practices. Besides, the fact that the ratio of extension agent to farm families has remained astronomically low about 1:15,000 for some states, instead of the FAO recommended 1:1000, Nigeria should embrace and strengthen eextension to cater for the information needs of the growing farming population. Moreover, the enormity of crop, livestock and fisheries losses, occasioned by the absence of effective information linkages between farmers and extension service providers, requires a conscientious determination of government to develop a robust agricultural knowledge and information management system. In this regard, the National Farmers' Helpline Centres should be given all the necessary support (human and material resources, as well as a conducive policy environment) to be fully operational. The Centre needs to secure a short-



code for operation with the help of NCC and FMARD; currently, it uses a SIM bank for its calls. Therefore, to achieve an information-based and ICT-driven agricultural extension system, the Helpline should be in full operation, with subsidized calls to and from farmers. This would strengthen the various production-enhancing indicators, such as market information, disease identification and management, as well as recommended practices along the agricultural value chain activities.

## 6. Deployment of a Decisive Action Plan to Tackle the Tide of insecurity

A major finding of the study was the threat of insecurity, especially kidnapping, armed banditry, animal rustling and herder/farmer clashes to agriculture business across the country. There were widespread reports of farmlands destruction and sometimes, abandonment by farmers due to activities of kidnappers and herders. A new dimension, especially in the Northwest, is when armed bandits and kidnappers request farmers to pay them monthly/weekly 'dues' so that their farms and workers can be spared. Government has made a lot of headway in containing the activities of militants and insurgents in recent years; although insurgency activities have been largely contained, matters of insecurity seem to be more generally widespread across the country. No doubt, productive economic activities cannot thrive in an atmosphere of fear, chaos and destruction. There is therefore, the need for a more decisive approach to curbing the menace of insecurity across the federation.

Moreover, the Livestock Transformation Plan (LTP) being currently implemented by the government is a welcome development. It will appropriately move pastoralists into clusters and develop them away from the prevailing husbandry system into a more stable and sustainable small and large-scale intensive production enclaves. This will stem, to a large extent, the menace of herders/farmers conflict, as herders would be educated at the entry point on the need to abide by Federal, State and Local Government laws and policies, for conducive agricultural business environment.





